

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P1065698

Luminaire Tested: **GLAN-SA7B-950-U-LBC**

Issue Date: 08/07/2025

Test Information

Test Method: LM-79-08
Report Number: P1065698
Test Lab: INNOVATION CENTER(G3)
Issue Date: 08/07/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-950-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 7xLight Square PACKAGE
90CRI 5000K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (98) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22520.5 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G4

Input Watts (W): 249.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

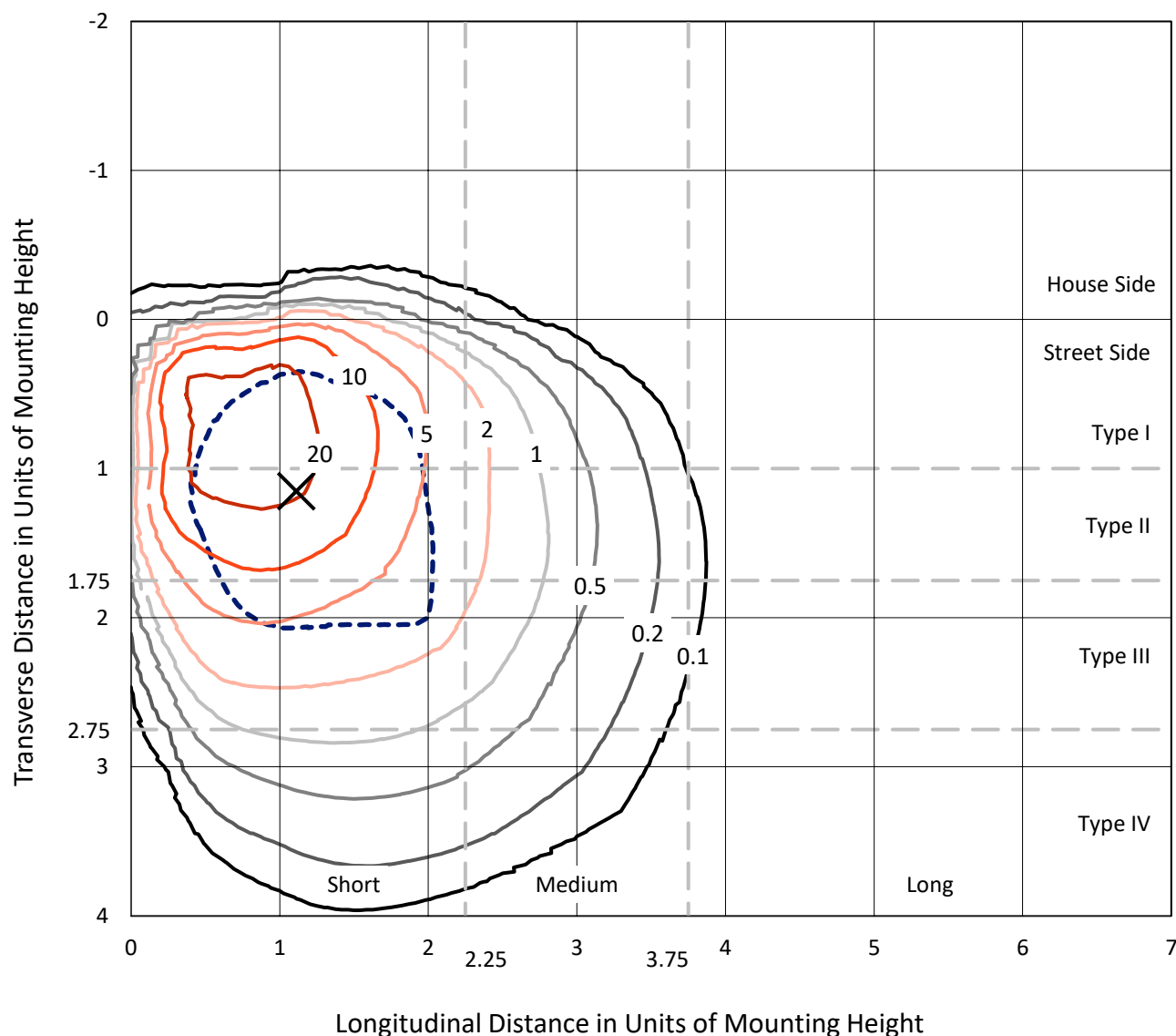
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

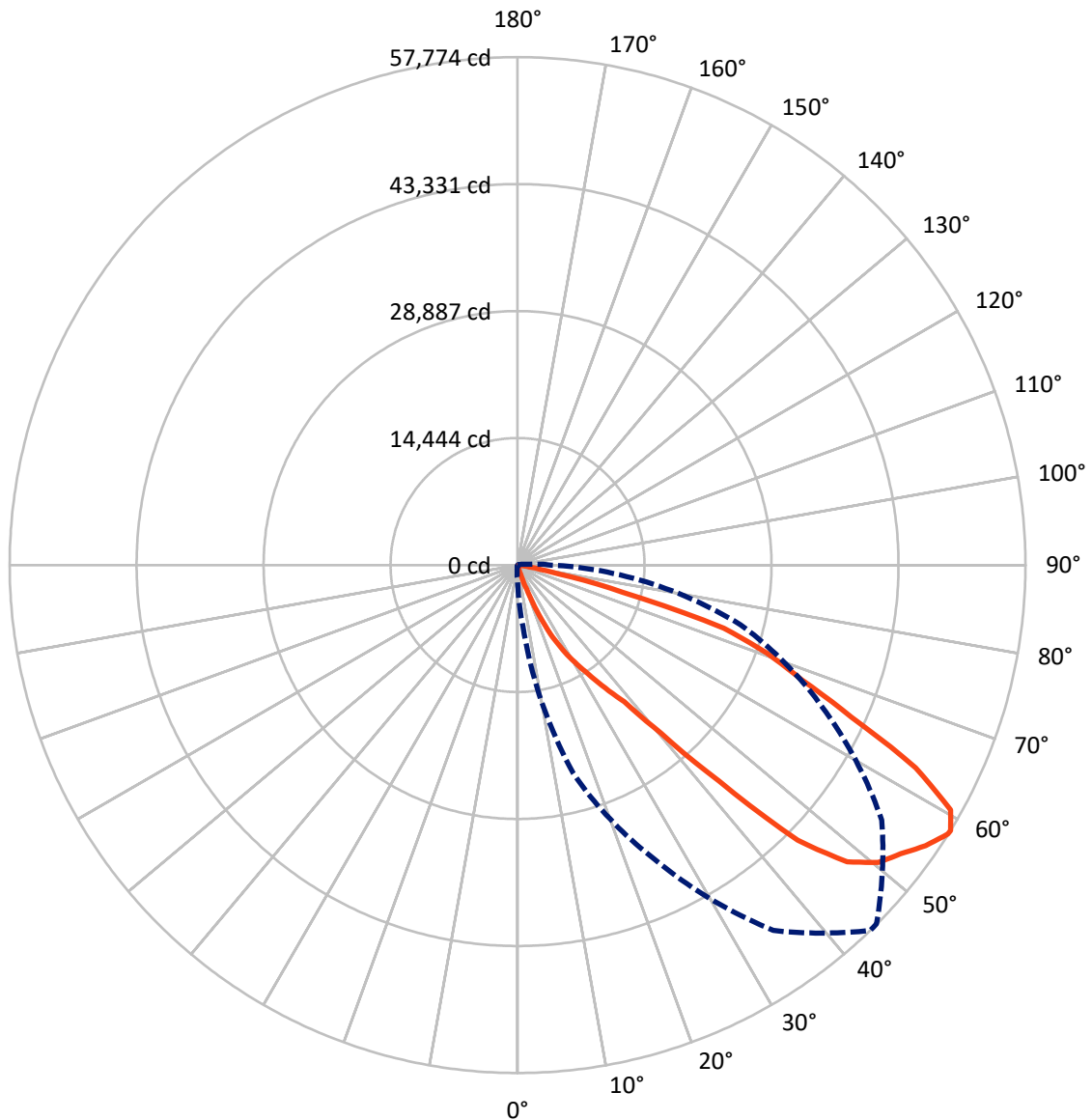


Based on 20 foot mounting height. Maximum calculated value = 39.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	153.8	0.0	153.8
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	22366.8	0.0	22366.8
	% Fixture	99.3	0.0	99.3
Total	Lumens	22520.5	0.0	22520.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.0
10°-20°	49.4	0.2
20°-30°	533.5	2.4
30°-40°	1577.8	7.0
40°-50°	4702.6	20.9
50°-60°	7462.0	33.1
60°-70°	6224.2	27.6
70°-80°	1919.6	8.5
80°-90°	42.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	22520.5	100.0
0°-180°	22520.5	100.0



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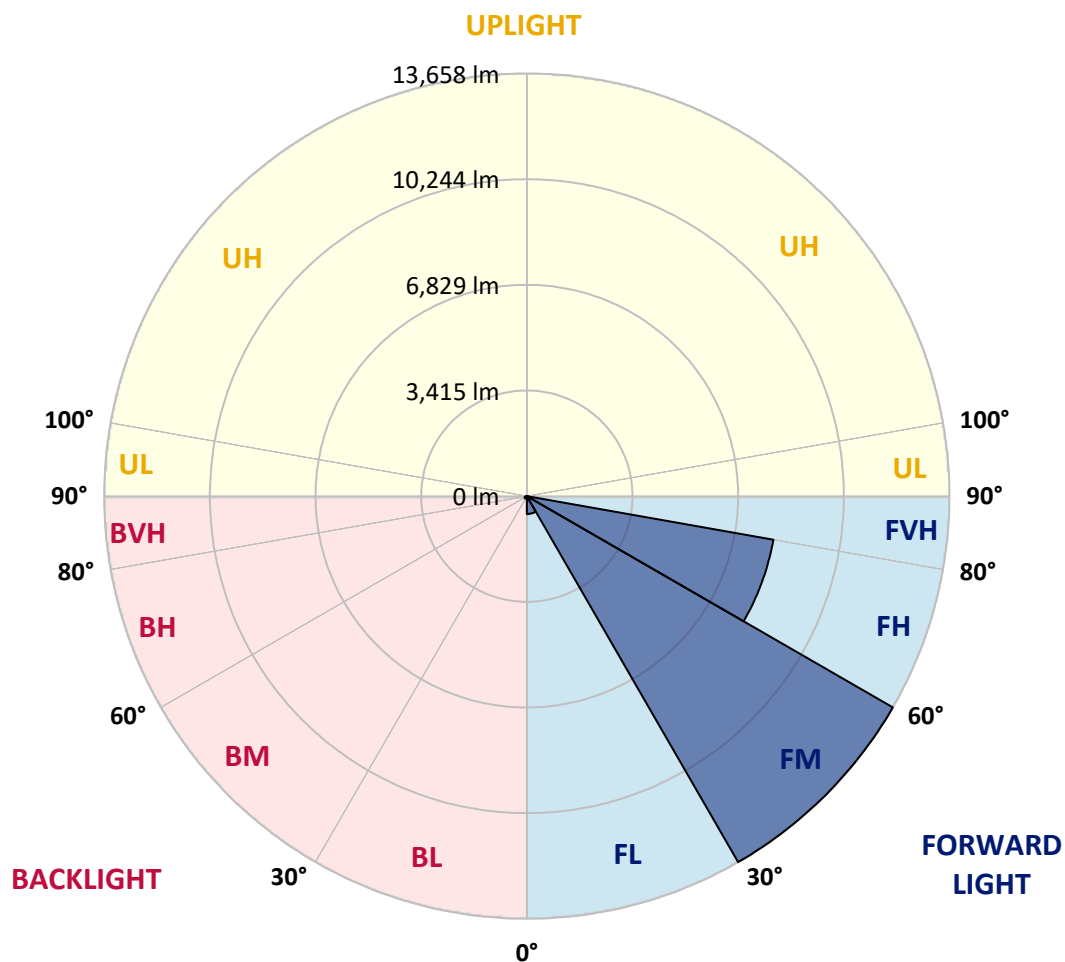
CATALOG NUMBER: GLAN-SA7B-950-U-LBC

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.7	2.6			
FM	(30°-60°)	13658.2	60.6			
FH	(60°-80°)	8091.3	35.9			G4/12000
FVH	(80°-90°)	40.6	0.2			G1/100
BL	(0°-30°)	15.0	0.1	B0/110		
BM	(30°-60°)	84.2	0.4	B0/220		
BH	(60°-80°)	52.5	0.2	B0/110		G0/110
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°
0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
2.5°	127.6	127.6	122.5	115.7	108.9	102.1	100.4	97.0	95.3	93.6
5°	132.7	132.7	131.0	125.9	119.1	114.0	114.0	108.9	105.5	102.1
7.5°	136.1	137.8	141.2	139.5	136.1	131.0	131.0	127.6	122.5	114.0
10°	141.2	146.3	153.1	156.5	158.2	158.2	156.5	154.8	146.3	134.4
12.5°	146.3	156.5	173.5	190.5	200.7	214.4	212.7	209.3	187.1	161.6
15°	156.5	171.8	207.6	256.9	333.4	381.1	399.8	382.8	309.6	217.8
17.5°	168.4	193.9	301.1	537.6	881.2	1044.6	1143.2	1063.3	704.3	413.4
20°	180.3	236.5	559.7	1393.3	2286.5	2820.6	2968.7	2737.3	1757.4	787.7
22.5°	200.7	331.7	1134.7	2880.2	4926.8	5728.1	5879.5	5139.4	3319.1	1554.9
25°	243.3	481.4	1956.4	4693.7	7352.7	8705.2	8642.3	7672.6	5384.4	2483.8
27.5°	304.5	700.9	2958.4	6668.8	9676.6	10869.2	11012.1	9812.7	7177.5	3652.6
30°	393.0	971.4	4033.6	8251.0	11539.5	12829.0	12852.8	11612.6	8781.8	4678.4
32.5°	478.0	1226.6	4974.4	9780.4	13375.1	14788.8	14894.3	13368.3	9979.4	5746.8
35°	542.7	1393.3	5927.1	11124.4	15226.1	17174.0	17167.2	15355.4	11398.3	6701.2
37.5°	547.8	1560.0	6789.6	12499.0	17570.4	19751.3	19967.4	17970.2	13113.1	7881.8
40°	535.9	1747.2	7881.8	14642.5	21794.5	25140.9	25331.4	22813.6	16553.0	9902.9
42.5°	549.5	2072.1	9654.5	18601.3	28808.7	33614.7	33982.2	31335.1	22876.5	14026.7
45°	621.0	2682.8	13368.3	25224.2	38806.9	44665.9	44543.5	40731.0	30234.4	20304.2
47.5°	857.4	4178.2	18873.5	31670.2	45196.7	50414.4	50519.9	45860.2	34528.3	25130.7
50°	1318.5	6393.2	23499.2	35077.8	47944.2	53178.9	53080.3	47695.8	36159.8	27507.3
52.5°	1714.8	7995.8	25819.7	36273.7	48296.4	54545.0	54538.2	48179.0	36413.2	27711.4
55°	1813.5	8116.6	25838.4	36338.4	49085.8	56333.0	56557.6	49368.2	36741.6	26820.0
57.5°	1774.4	7186.0	24759.8	36712.7	50491.0	57716.1	57728.0	50519.9	37575.2	26273.9
58°	1740.4	7039.7	24542.0	36925.3	50732.5	57774.0	57745.0	50572.6	38254.0	26253.5
60°	1549.8	6112.5	23693.1	37468.0	50373.6	56586.5	56316.0	49420.9	38153.6	26044.2
62.5°	1218.1	4768.6	22857.8	36840.3	46525.4	50838.0	50950.3	43754.1	34781.8	24824.4
65°	969.7	3553.9	21115.7	32315.0	38311.8	41748.3	42166.8	35579.6	29031.6	21020.5
67.5°	772.4	2568.9	17713.3	25727.8	30316.0	34843.0	35147.5	29872.0	22492.0	16105.6
70°	627.8	1737.0	12226.8	18815.7	25004.8	30094.9	30113.6	24815.9	16787.8	10552.8
72.5°	556.3	1202.8	7097.6	13722.2	20275.3	24523.3	24028.3	20137.5	12902.2	6250.3
75°	481.4	797.9	3480.7	8388.8	12293.1	12376.5	12565.3	9341.5	6449.4	2972.1
77.5°	396.4	566.5	1371.2	2291.6	3686.6	4719.2	4894.5	3708.7	2145.3	731.5
80°	272.2	268.8	369.2	702.6	1054.8	1321.9	1233.4	954.4	561.4	280.7
82.5°	117.4	127.6	166.7	200.7	163.3	158.2	151.4	97.0	74.9	57.8
85°	37.4	34.0	35.7	35.7	28.9	22.1	22.1	10.2	0.0	0.0
87.5°	18.7	15.3	15.3	13.6	8.5	3.4	1.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GLAN-SA7B-950-U-LBC

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
98.7	0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
91.9	2.5°	90.2	90.2	86.8	83.4	81.7	78.3	76.6	74.9	73.2	71.5
98.7	5°	95.3	93.6	88.5	83.4	78.3	73.2	69.8	66.3	62.9	61.2
108.9	7.5°	103.8	100.4	90.2	81.7	74.9	68.0	64.6	59.5	56.1	51.0
120.8	10°	114.0	107.2	93.6	83.4	73.2	64.6	59.5	54.4	49.3	42.5
137.8	12.5°	127.6	115.7	98.7	81.7	69.8	59.5	54.4	47.6	42.5	37.4
159.9	15°	139.5	124.2	100.4	81.7	66.3	54.4	47.6	40.8	35.7	28.9
200.7	17.5°	156.5	131.0	98.7	76.6	61.2	47.6	40.8	35.7	27.2	17.0
297.7	20°	185.4	136.1	95.3	71.5	52.7	39.1	30.6	23.8	11.9	3.4
447.4	22.5°	231.4	149.7	91.9	64.6	45.9	30.6	20.4	8.5	0.0	0.0
680.5	25°	319.8	173.5	91.9	61.2	40.8	22.1	6.8	0.0	0.0	0.0
966.3	27.5°	425.3	205.8	91.9	52.7	32.3	11.9	0.0	0.0	0.0	0.0
1316.8	30°	532.5	241.6	91.9	45.9	25.5	1.7	0.0	0.0	0.0	0.0
1621.3	32.5°	634.6	272.2	93.6	39.1	17.0	0.0	0.0	0.0	0.0	0.0
2043.2	35°	738.3	277.3	91.9	34.0	10.2	0.0	0.0	0.0	0.0	0.0
2560.4	37.5°	871.0	267.1	86.8	30.6	5.1	0.0	0.0	0.0	0.0	0.0
3368.4	40°	1071.8	272.2	81.7	28.9	1.7	0.0	0.0	0.0	0.0	0.0
4809.4	42.5°	1442.6	294.3	74.9	28.9	0.0	0.0	0.0	0.0	0.0	0.0
7660.7	45°	2494.0	394.7	68.0	30.6	0.0	0.0	0.0	0.0	0.0	0.0
11500.4	47.5°	4125.5	709.4	66.3	30.6	0.0	0.0	0.0	0.0	0.0	0.0
13853.2	50°	5265.3	893.1	69.8	32.3	0.0	0.0	0.0	0.0	0.0	0.0
14147.5	52.5°	5256.8	995.2	73.2	34.0	6.8	0.0	0.0	0.0	0.0	0.0
13040.0	55°	4673.3	1013.9	78.3	37.4	22.1	0.0	0.0	0.0	0.0	0.0
11206.0	57.5°	3906.0	925.5	90.2	45.9	40.8	0.0	0.0	0.0	0.0	0.0
10918.5	58°	3769.9	884.6	93.6	47.6	44.2	0.0	0.0	0.0	0.0	0.0
9470.8	60°	3089.4	721.3	119.1	59.5	59.5	0.0	0.0	0.0	0.0	0.0
7764.4	62.5°	2133.3	629.5	136.1	76.6	61.2	0.0	0.0	0.0	0.0	0.0
5724.7	65°	1509.0	568.2	148.0	81.7	49.3	0.0	0.0	0.0	0.0	0.0
4067.7	67.5°	1127.9	524.0	163.3	83.4	25.5	0.0	0.0	0.0	0.0	0.0
2551.9	70°	864.2	491.7	200.7	88.5	6.8	0.0	0.0	0.0	0.0	0.0
1520.9	72.5°	704.3	454.2	243.3	91.9	0.0	0.0	0.0	0.0	0.0	0.0
911.9	75°	583.5	410.0	234.8	100.4	0.0	0.0	0.0	0.0	0.0	0.0
486.6	77.5°	387.9	318.1	214.4	100.4	0.0	0.0	0.0	0.0	0.0	0.0
173.5	80°	136.1	125.9	166.7	88.5	0.0	0.0	0.0	0.0	0.0	0.0
35.7	82.5°	20.4	17.0	23.8	30.6	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

180°		185°	195°	205°	215°	225°	235°	245°	255°	265°	270°
98.7	0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
69.8	2.5°	69.8	69.8	68.0	69.8	69.8	73.2	81.7	93.6	107.2	112.3
59.5	5°	57.8	56.1	54.4	54.4	54.4	59.5	66.3	80.0	95.3	102.1
49.3	7.5°	47.6	45.9	44.2	42.5	42.5	45.9	54.4	69.8	85.1	91.9
40.8	10°	39.1	35.7	34.0	32.3	32.3	35.7	44.2	59.5	76.6	83.4
34.0	12.5°	32.3	27.2	23.8	22.1	20.4	25.5	34.0	47.6	66.3	74.9
25.5	15°	22.1	17.0	11.9	10.2	8.5	13.6	22.1	37.4	56.1	66.3
13.6	17.5°	11.9	5.1	1.7	0.0	0.0	3.4	10.2	27.2	45.9	54.4
0.0	20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	34.0	42.5
0.0	22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	20.4	28.9
0.0	25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	15.3
0.0	27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
0.0	30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	13.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

275°		285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
98.7	0°	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
117.4	2.5°	120.8	119.1	115.7	112.3	112.3	112.3	117.4	122.5	127.6	127.6
105.5	5°	112.3	112.3	110.6	107.2	107.2	108.9	115.7	124.2	131.0	132.7
97.0	7.5°	103.8	107.2	103.8	102.1	103.8	105.5	112.3	122.5	132.7	136.1
90.2	10°	98.7	100.4	100.4	98.7	98.7	102.1	108.9	122.5	136.1	141.2
81.7	12.5°	91.9	95.3	93.6	93.6	93.6	97.0	105.5	120.8	139.5	146.3
73.2	15°	85.1	90.2	90.2	88.5	88.5	90.2	102.1	119.1	144.6	156.5
62.9	17.5°	78.3	83.4	85.1	81.7	81.7	85.1	97.0	119.1	148.0	168.4
51.0	20°	64.6	73.2	78.3	73.2	73.2	76.6	88.5	112.3	149.7	180.3
37.4	22.5°	51.0	59.5	66.3	64.6	64.6	66.3	81.7	107.2	151.4	200.7
22.1	25°	37.4	45.9	51.0	54.4	54.4	59.5	74.9	103.8	158.2	243.3
10.2	27.5°	22.1	32.3	39.1	42.5	44.2	51.0	69.8	100.4	170.1	304.5
0.0	30°	10.2	18.7	27.2	34.0	34.0	45.9	64.6	97.0	185.4	393.0
0.0	32.5°	0.0	8.5	13.6	23.8	25.5	37.4	59.5	93.6	207.6	478.0
0.0	35°	0.0	0.0	6.8	18.7	18.7	30.6	54.4	90.2	241.6	542.7
0.0	37.5°	0.0	0.0	0.0	13.6	15.3	27.2	52.7	88.5	248.4	547.8
0.0	40°	0.0	0.0	0.0	10.2	11.9	25.5	52.7	90.2	224.6	535.9
0.0	42.5°	0.0	0.0	0.0	6.8	8.5	25.5	52.7	93.6	202.4	549.5
0.0	45°	0.0	0.0	0.0	5.1	6.8	27.2	51.0	91.9	190.5	621.0
0.0	47.5°	0.0	0.0	0.0	6.8	10.2	27.2	49.3	90.2	192.2	857.4
0.0	50°	0.0	0.0	0.0	8.5	11.9	27.2	51.0	86.8	211.0	1318.5
0.0	52.5°	0.0	0.0	0.0	6.8	10.2	30.6	56.1	85.1	229.7	1714.8
0.0	55°	0.0	0.0	0.0	1.7	5.1	39.1	61.2	85.1	258.6	1813.5
0.0	57.5°	0.0	0.0	0.0	0.0	0.0	44.2	69.8	90.2	306.2	1774.4
0.0	58°	0.0	0.0	0.0	0.0	0.0	44.2	71.5	90.2	309.6	1740.4
0.0	60°	0.0	0.0	0.0	0.0	0.0	44.2	78.3	100.4	333.4	1549.8
0.0	62.5°	0.0	0.0	0.0	0.0	0.0	37.4	93.6	125.9	347.1	1218.1
0.0	65°	0.0	0.0	0.0	0.0	0.0	30.6	110.6	137.8	357.3	969.7
0.0	67.5°	0.0	0.0	0.0	0.0	0.0	28.9	114.0	139.5	362.4	772.4
0.0	70°	0.0	0.0	0.0	0.0	0.0	30.6	112.3	149.7	379.4	627.8
0.0	72.5°	0.0	0.0	0.0	0.0	0.0	34.0	102.1	165.0	379.4	556.3
0.0	75°	0.0	0.0	0.0	0.0	0.0	35.7	95.3	185.4	345.4	481.4
0.0	77.5°	0.0	0.0	0.0	0.0	0.0	34.0	93.6	216.1	307.9	396.4
0.0	80°	3.4	5.1	5.1	3.4	3.4	28.9	91.9	219.5	262.0	272.2
1.7	82.5°	10.2	13.6	11.9	8.5	8.5	25.5	81.7	183.7	136.1	117.4
10.2	85°	18.7	22.1	22.1	18.7	18.7	23.8	51.0	66.3	45.9	37.4
18.7	87.5°	25.5	28.9	28.9	25.5	25.5	23.8	22.1	20.4	18.7	18.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-17

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-950-U-5WQ

Data in this report applies to families of products including GSS-SB1A-950-U-5WQ

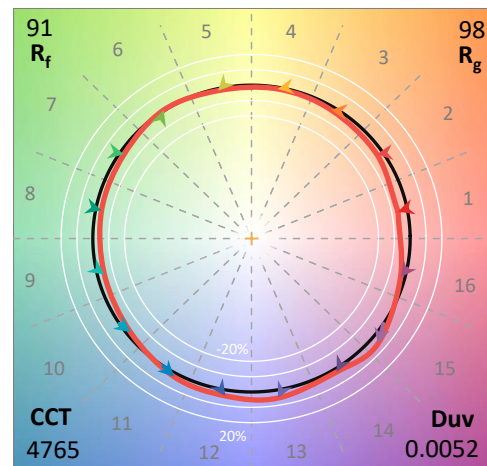
Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-17
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-950-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 90 CRI
 5000K CCT 26 LEDS

Spectral Parameters

CCT (K): 4765
 CIE u' : 0.2105
 CIE v' : 0.4941
 Duv: 0.0052
 CIE x: 0.3536
 CIE y: 0.3689
 CIE z: 0.2775
 Peak Wavelength (nm): 449
 Dominant Wavelength (nm): 571
 Purity: 16.80041
 R_f: 90.7
 R_g: 98

CRI (Ra): 90.8
 R1: 89.8
 R2: 93.1
 R3: 95.3
 R4: 90.3
 R5: 89.0
 R6: 89.7
 R7: 94.9
 R8: 84.0
 R9: 54.9
 R10: 83.0
 R11: 89.6
 R12: 68.0
 R13: 90.6
 R14: 97.3
 R15: 86.2



Test Conditions

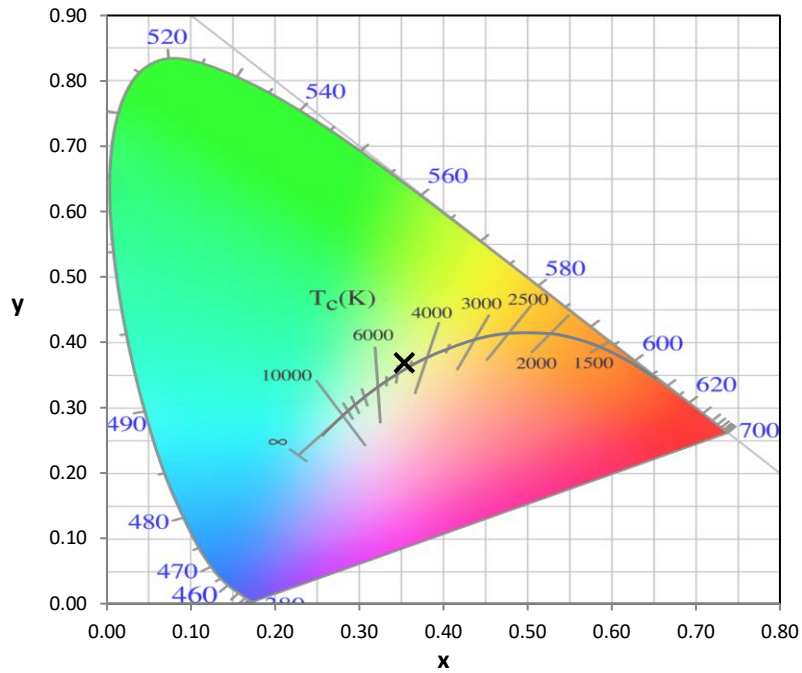
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-17

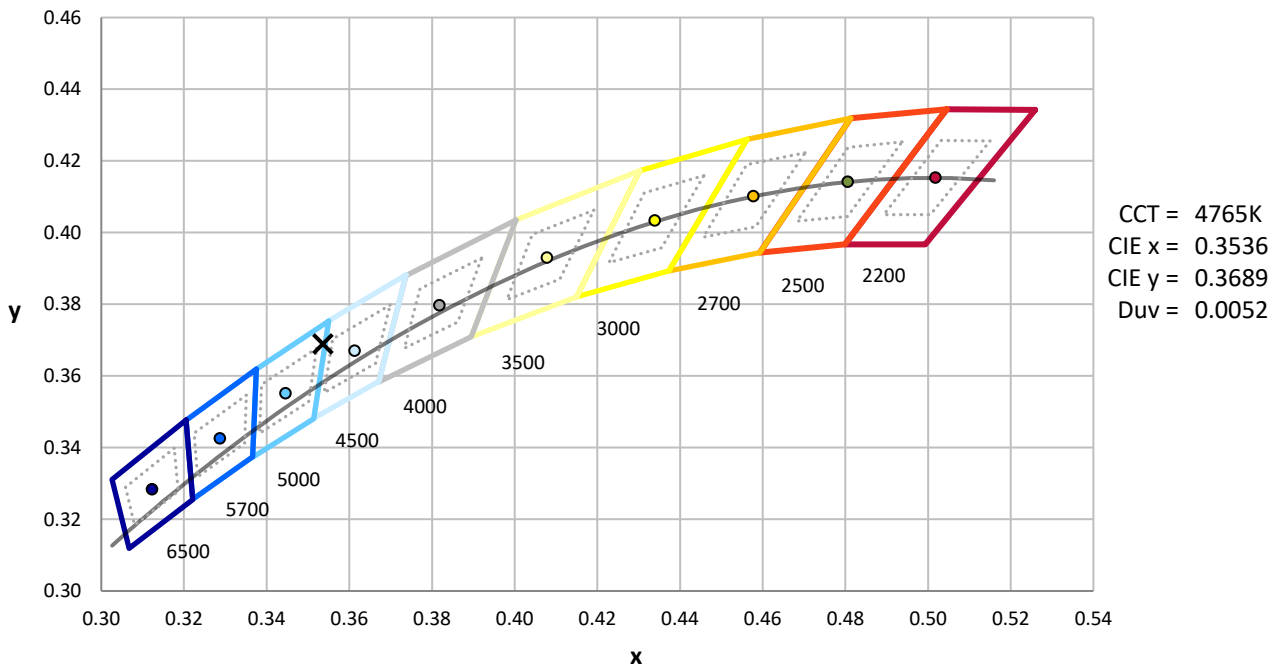
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-17

CIE 1931 Chromaticity Diagram



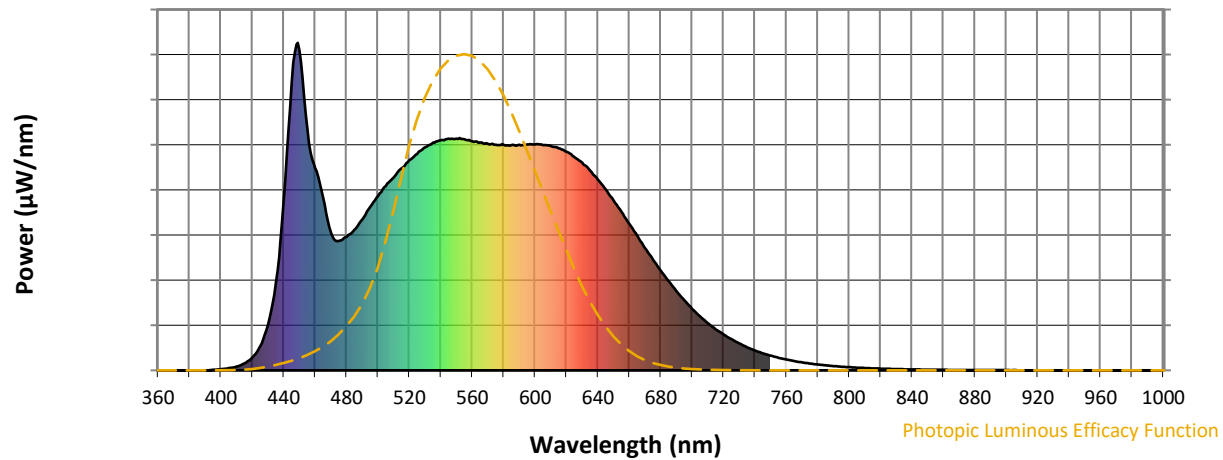
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 5000K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-17

Photopic Flux vs. Wavelength

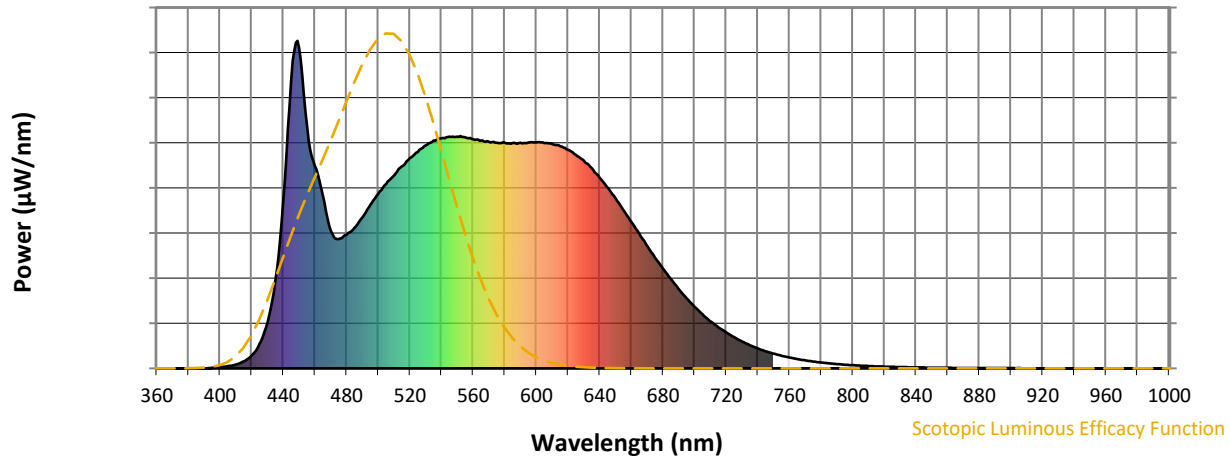


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-17

Scotopic Flux vs. Wavelength



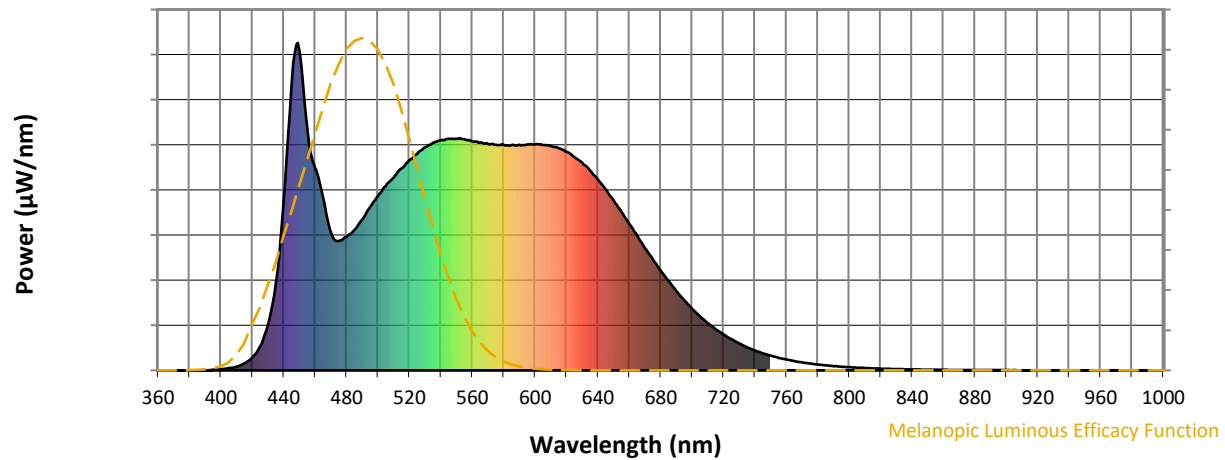
Scotopic Lumens: NR

S/P: 1.99

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 4.22

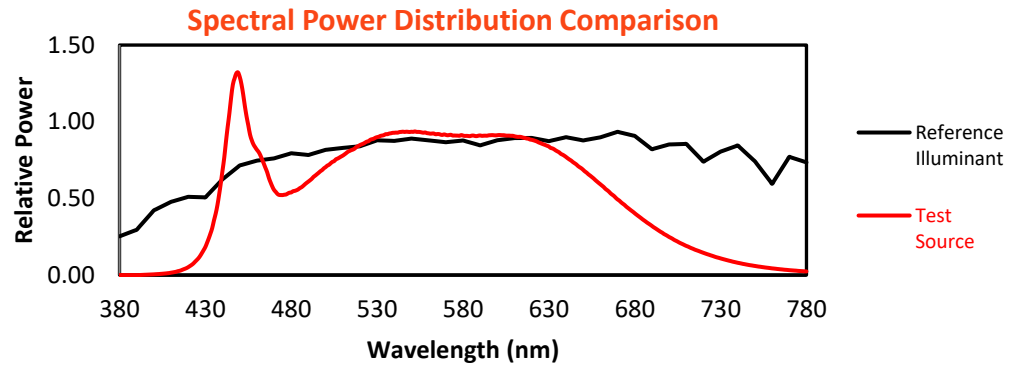
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	462	NR	620	668	NR	750	45	NR	880	1	NR
365	0	NR	495	498	NR	625	652	NR	755	39	NR	885	1	NR
370	0	NR	500	533	NR	630	634	NR	760	33	NR	890	1	NR
375	0	NR	505	562	NR	635	610	NR	765	28	NR	895	1	NR
380	0	NR	510	590	NR	640	583	NR	770	24	NR	900	1	NR
385	0	NR	515	617	NR	645	552	NR	775	21	NR	905	1	NR
390	0	NR	520	642	NR	650	519	NR	780	18	NR	910	0	NR
395	2	NR	525	661	NR	655	484	NR	785	15	NR	915	0	NR
400	4	NR	530	681	NR	660	448	NR	790	13	NR	920	0	NR
405	7	NR	535	695	NR	665	411	NR	795	11	NR	925	0	NR
410	12	NR	540	702	NR	670	373	NR	800	10	NR	930	0	NR
415	21	NR	545	708	NR	675	338	NR	805	8	NR	935	0	NR
420	39	NR	550	707	NR	680	305	NR	810	7	NR	940	0	NR
425	74	NR	555	706	NR	685	272	NR	815	6	NR	945	0	NR
430	139	NR	560	700	NR	690	243	NR	820	5	NR	950	0	NR
435	270	NR	565	696	NR	695	214	NR	825	5	NR	955	0	NR
440	517	NR	570	692	NR	700	188	NR	830	4	NR	960	0	NR
445	877	NR	575	689	NR	705	165	NR	835	3	NR	965	0	NR
450	978	NR	580	688	NR	710	144	NR	840	3	NR	970	0	NR
455	738	NR	585	688	NR	715	125	NR	845	3	NR	975	0	NR
460	618	NR	590	689	NR	720	110	NR	850	2	NR	980	0	NR
465	529	NR	595	690	NR	725	95	NR	855	2	NR	985	0	NR
470	420	NR	600	690	NR	730	82	NR	860	2	NR	990	0	NR
475	395	NR	605	688	NR	735	71	NR	865	1	NR	995	0	NR
480	408	NR	610	685	NR	740	61	NR	870	1	NR	1000	0	NR
485	429	NR	615	678	NR	745	52	NR	875	1	NR			

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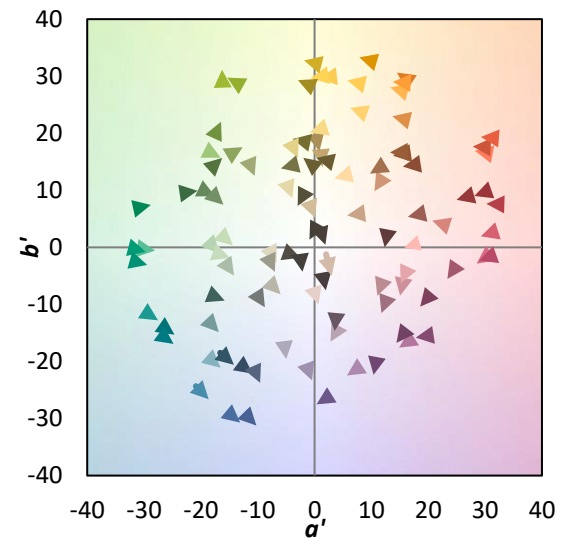
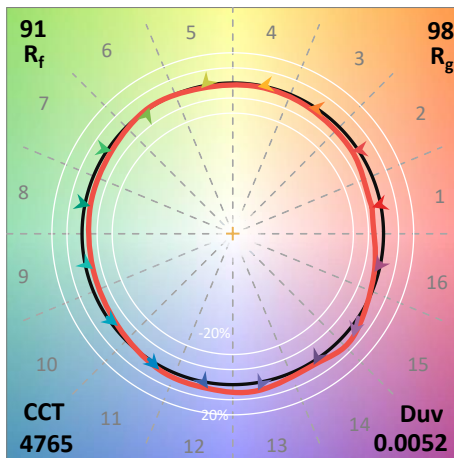
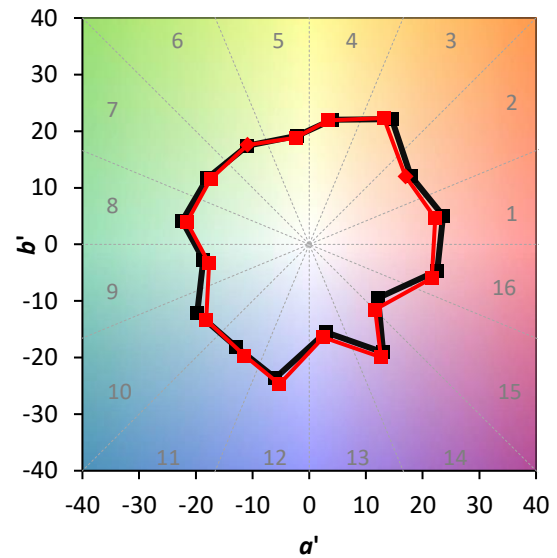
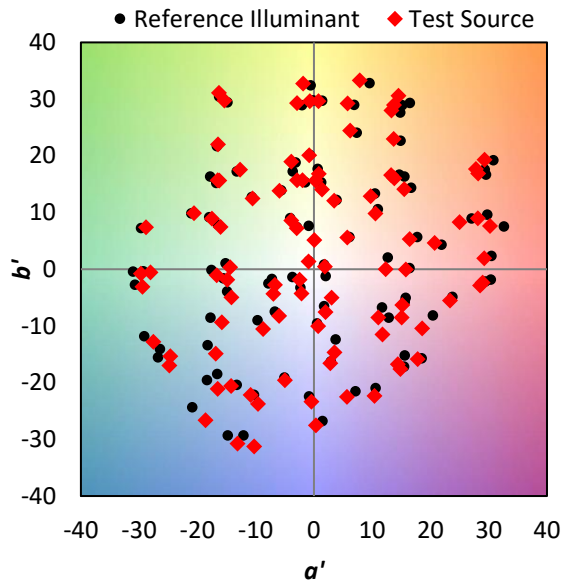
TM-30-18

Summary

$R_f = 90.7$
 $R_g = 98$
 CIE $R_a = 90.8$
 $R_9 = 54.9$

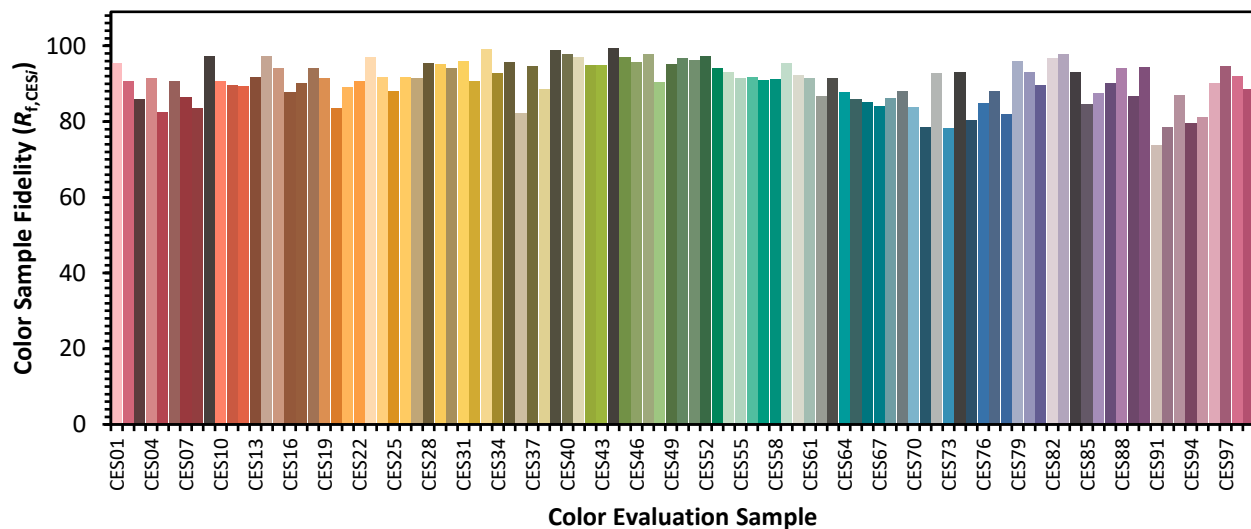


Color Vector Graphics

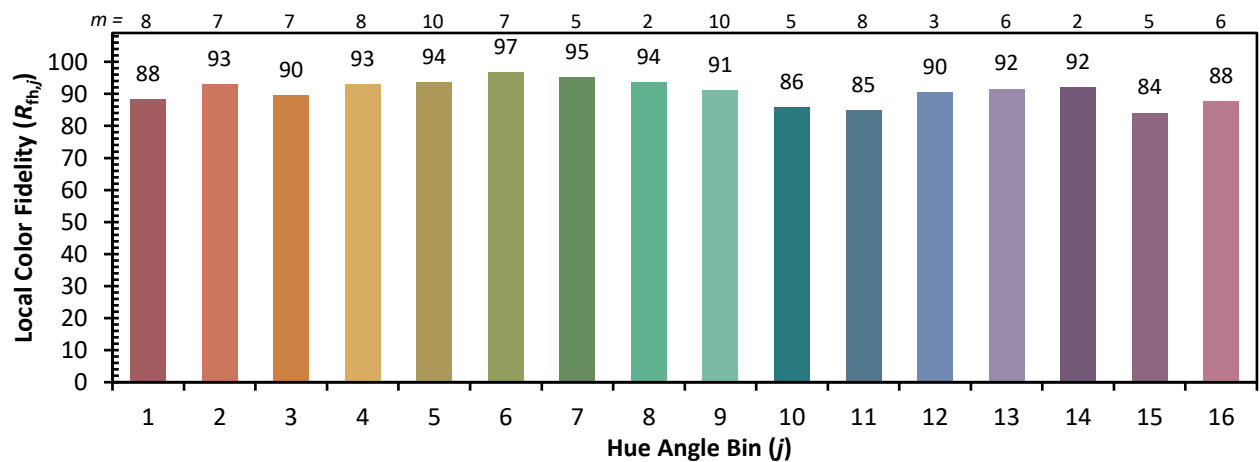
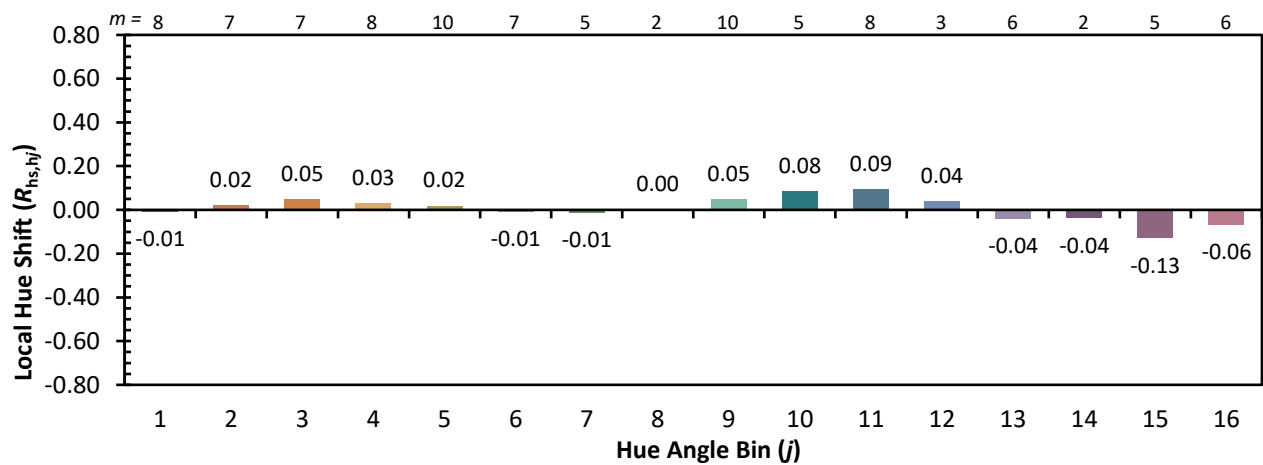
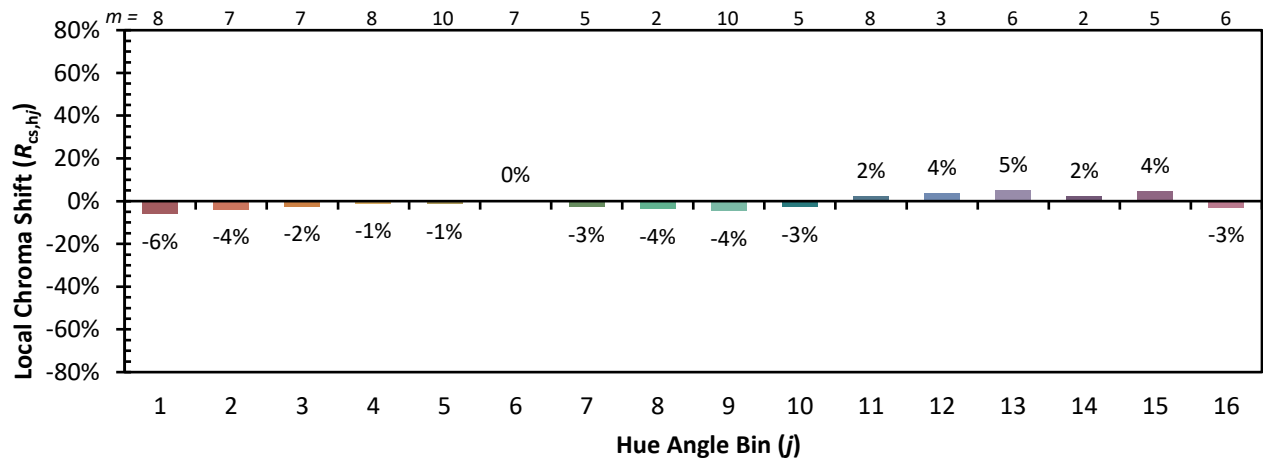


Individual Sample Fidelity Index ($R_{f,i}$)

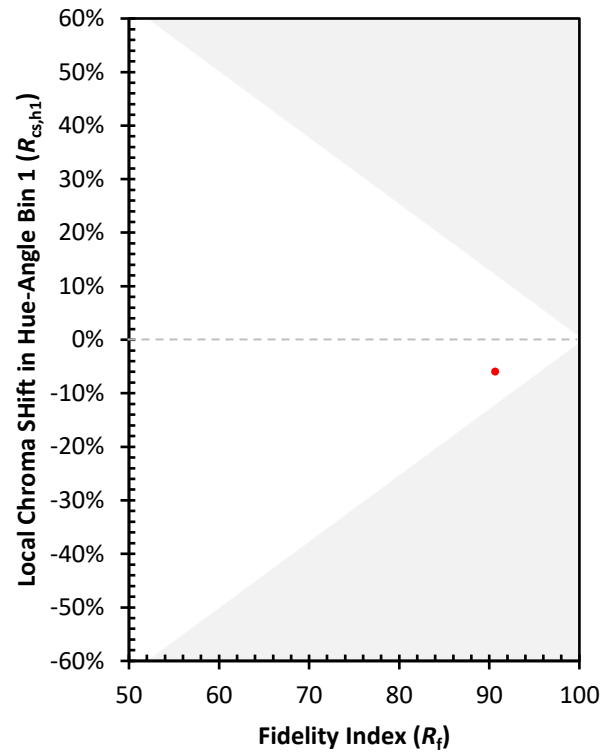
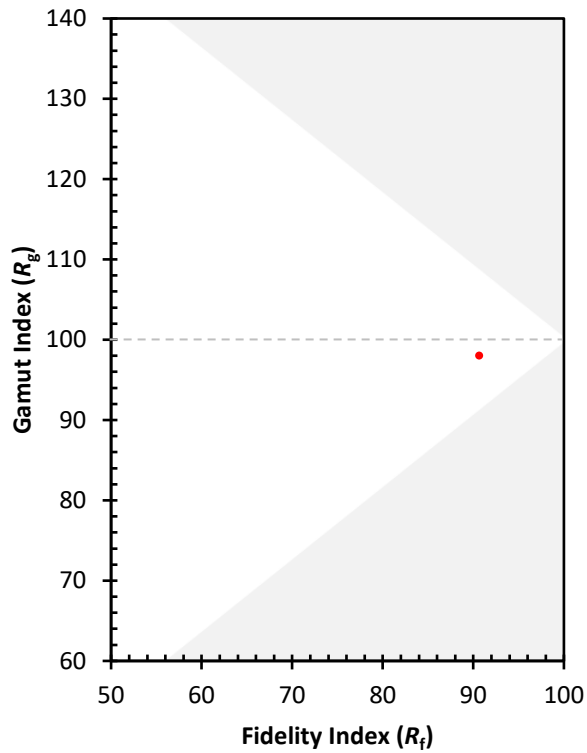
CES01 = 85	CES26 = 92	CES51 = 96	CES76 = 85
CES02 = 60	CES27 = 92	CES52 = 97	CES77 = 88
CES03 = 31	CES28 = 95	CES53 = 94	CES78 = 82
CES04 = 69	CES29 = 95	CES54 = 93	CES79 = 96
CES05 = 48	CES30 = 94	CES55 = 92	CES80 = 93
CES06 = 50	CES31 = 96	CES56 = 92	CES81 = 89
CES07 = 41	CES32 = 91	CES57 = 91	CES82 = 97
CES08 = 40	CES33 = 99	CES58 = 91	CES83 = 98
CES09 = 29	CES34 = 93	CES59 = 95	CES84 = 93
CES10 = 73	CES35 = 96	CES60 = 92	CES85 = 85
CES11 = 56	CES36 = 82	CES61 = 92	CES86 = 88
CES12 = 62	CES37 = 95	CES62 = 87	CES87 = 90
CES13 = 42	CES38 = 89	CES63 = 91	CES88 = 94
CES14 = 74	CES39 = 99	CES64 = 88	CES89 = 87
CES15 = 71	CES40 = 98	CES65 = 86	CES90 = 94
CES16 = 46	CES41 = 97	CES66 = 85	CES91 = 74
CES17 = 48	CES42 = 95	CES67 = 84	CES92 = 78
CES18 = 56	CES43 = 95	CES68 = 86	CES93 = 87
CES19 = 70	CES44 = 100	CES69 = 88	CES94 = 80
CES20 = 65	CES45 = 97	CES70 = 84	CES95 = 81
CES21 = 85	CES46 = 96	CES71 = 79	CES96 = 90
CES22 = 77	CES47 = 98	CES72 = 93	CES97 = 95
CES23 = 91	CES48 = 90	CES73 = 78	CES98 = 92
CES24 = 90	CES49 = 95	CES74 = 93	CES99 = 88
CES25 = 70	CES50 = 97	CES75 = 80	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)